UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,773	11/11/2003	Shinichi Nakamura	9319H-000587	4378
	7590 07/11/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. BOX 828	ŕ	KIM, CHRISTOPHER S		
BLOOMFIELL) HILLS, MI 48303		ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			07/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applica	Application No.		Applicant(s)	
		10/705,	10/705,773 NAKAMURA ET AL.		AL.	
		Examin	er	Art Unit		
		Christop	her S. Kim	3752		
۔۔ Period foı	The MAILING DATE of this commun	ication appears on t	he cover sheet with	the correspondence a	ddress	
A SHC WHICH - Extens after S - If NO - Failure Any re	PRIENT STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions IX (6) MONTHS from the mailing date of this comr beriod for reply is specified above, the maximum st to reply within the set or extended period for reply ply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	AALLING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	FHIS COMMUNICA event, however, may a reply will expire SIX (6) MONTH: pplication to become ABAN	TION. / be timely filed S from the mailing date of this DONED (35 U.S.C. § 133).		
Status						
2a)⊠ 3 3)□ 3	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practi	2b)⊡ This action is for allowance exce	ot for formal matters	· ·	e merits is	
Dispositio	on of Claims					
5)	•	re withdrawn from o				
10)□ T	The specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected to determine the cath or declaration is objected to the oath or declaration is objected to the cath of th	: a) ☐ accepted or ction to the drawing(sg the correction is requ) be held in abeyance lired if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 C		
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper No(s)/N	nmary (PTO-413) fail Date mal Patent Application		

Art Unit: 3752

DETAILED ACTION

Response to Amendment

- 1. The response filed April 24, 2008 is acknowledged.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 33-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein et al. (6,725,940).

Klein discloses an apparatus comprising:

an ejection unit having:

a plurality of heads, each head having:

an inner passage (passage from mixing device 34 to nozzle);

a plurality of nozzles (column 4, lines 56);

a cap unit having:

a plurality of caps 34;

an ejector device 38 having:

a supply port (water inlet port);

a suction port (foam inlet port);

a fluid supply 20;

a fluid supply pipeline 24, 102;

Art Unit: 3752

a flow rate regulating valve (discharge valve, column 4, line 54);

a suction pipeline 26, 100;

a pressure detector 106;

a suction pipeline gate valve 36;

a controller 42.

The recitation, "a plurality of heads...each head having a plurality of nozzles" reads on Klein's nozzles by mere grouping of Klein's nozzles.

Klein differs from the claimed invention in the intended use of the controller, "for selectively controlling the flow rate regulating valve and the suction pipeline gate valve as a function of the pressure detected by the pressure detector." An intended use recitation merely requires the ability to perform. A digital controller has the ability to control a valve as evidenced by the controller 42 controlling valve 80.

It would have been obvious to a person having ordinary skill in the art at the time of the invention to have controlled the valve 36 and the valve (discharge valve, column 4, line 54) using the controller 42 in the device of Klein for automation.

The recitation "adapted to..." merely requires the ability to so perform.

Response to Arguments

4. Applicant's arguments with respect to claims 33-39 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Art Unit: 3752

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571) 272-1184. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Christopher S. Kim/ Primary Examiner, Art Unit 3752

CK